

FIG. 1

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GRADATION

● : SELECTIVE ERASING DISCHARGE
○ : EMISSION SF

	PDs	CONVERSION TABLE		EMISSION DRIVING PATTERN		DISPLAY LUMINANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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		1	2	3	4	5	6	7	8	9	10	11	12	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF

FIG. 2

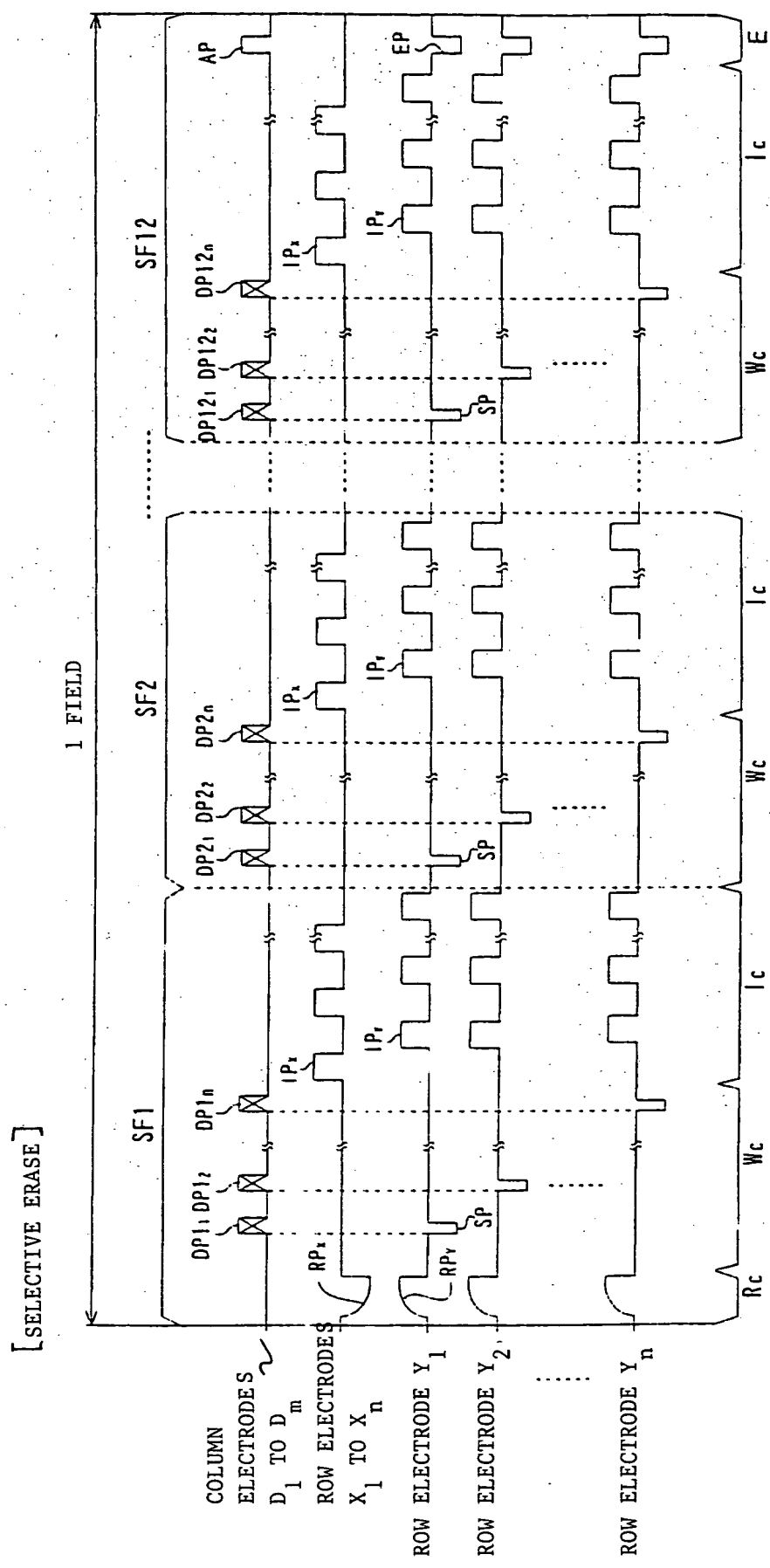


FIG. 3

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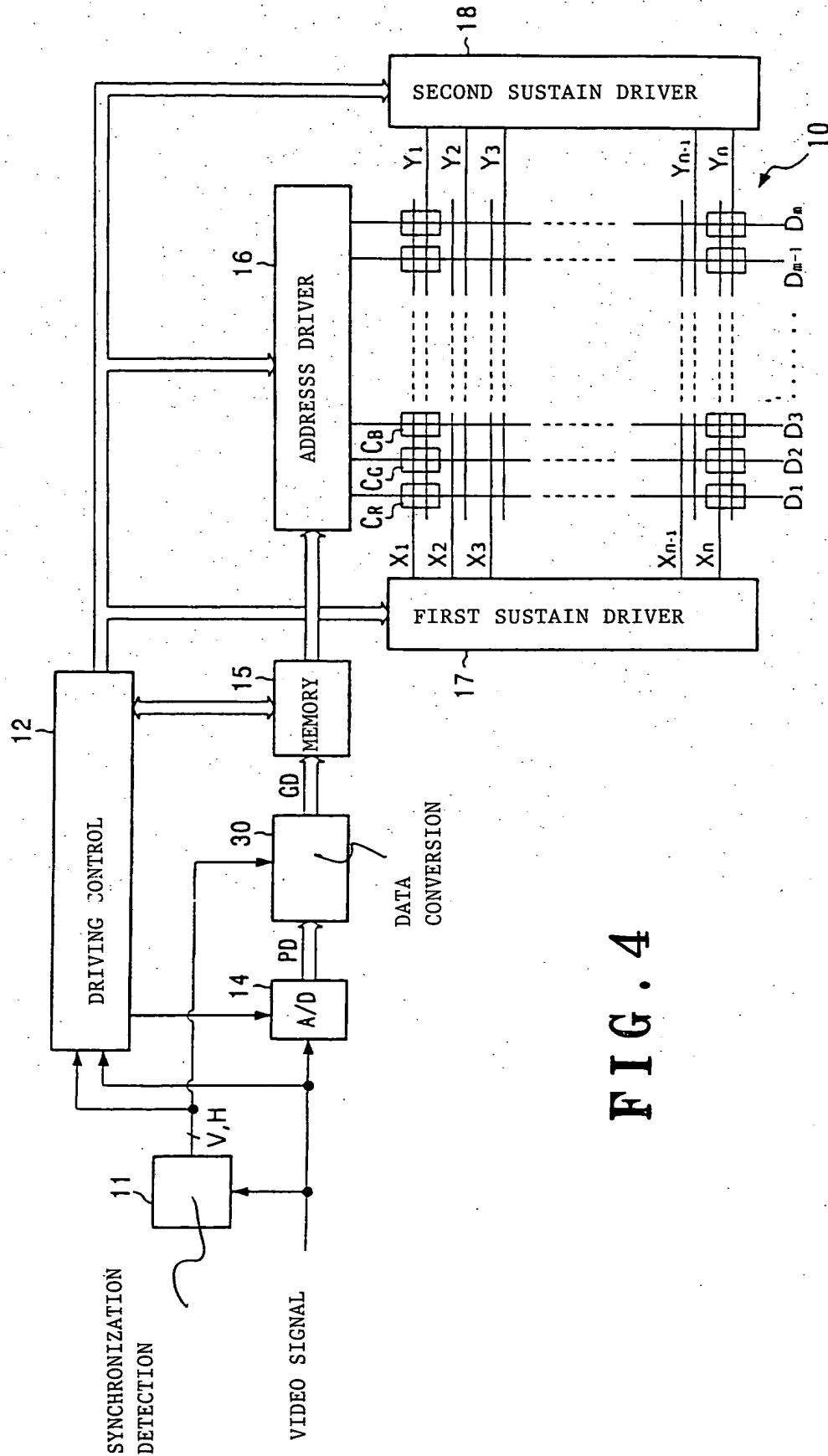


FIG. 4

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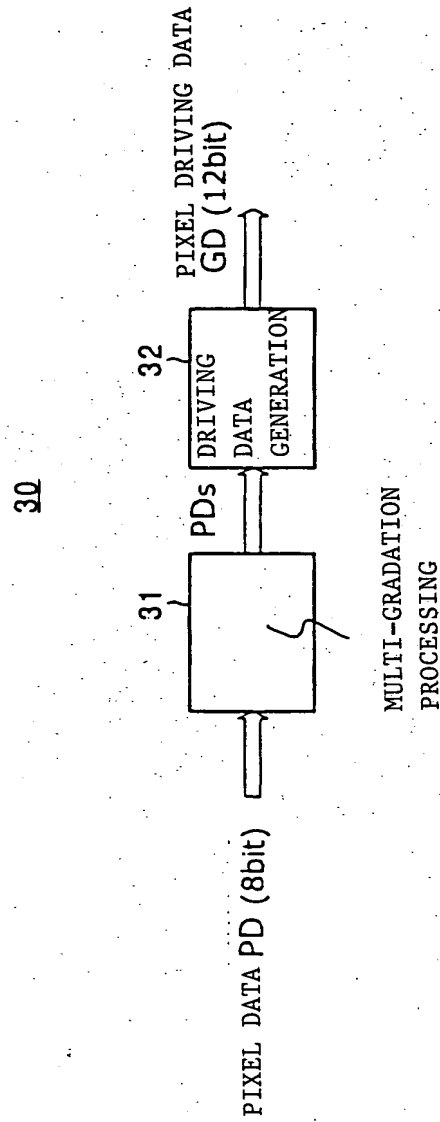


FIG. 5

GRADATION
DRIVING

LUMINANCE

7	CONVERSION TABLE												EMISSION PATTERN												/
	PDS						GD						SF 1	SF 2	SF 3	SF 4	SF 5	SF 6	SF 7	SF 8	SF 9	SF 10	SF 11	SF 12	
	1	2	3	4	12																			
1	0000	0	*	*	*	*	*	*	*	*	*	*	⊙	●											0
2	0001	1	1	*	*	*	*	*	*	*	*	*	⊙	●											1
3	0010	1	0	1	*	*	*	*	*	*	*	*	⊙	○	●										3
4	0011	1	0	0	1	*	*	*	*	*	*	*	⊙	○	○	●									7
5	0100	1	0	0	0	1	*	*	*	*	*	*	⊙	○	○	○	●								13
6	0101	1	0	0	0	0	1	*	*	*	*	*	⊙	○	○	○	○	●							25
7	0110	1	0	0	0	0	0	1	*	*	*	*	⊙	○	○	○	○	○	●						39
8	0111	1	0	0	0	0	0	0	1	*	*	*	⊙	○	○	○	○	○	○	●					59
9	1000	1	0	0	0	0	0	0	0	1	*	*	⊙	○	○	○	○	○	○	○	●				84
10	1001	1	0	0	0	0	0	0	0	0	1	*	⊙	○	○	○	○	○	○	○	○	○	○	○	117
11	1010	1	0	0	0	0	0	0	0	0	0	1	⊙	○	○	○	○	○	○	○	○	○	○	○	157
12	1011	1	0	0	0	0	0	0	0	0	0	0	1	⊙	○	○	○	○	○	○	○	○	○	○	205
13	1100	1	0	0	0	0	0	0	0	0	0	0	0	⊙	○	○	○	○	○	○	○	○	○	○	255

FIG. 6

*: 0 OR 1 ⊙ : SELECTIVE WRITING ● : SELECTIVE ERASURE ○ : SUSTAIN DISCHARGE EMISSION SF

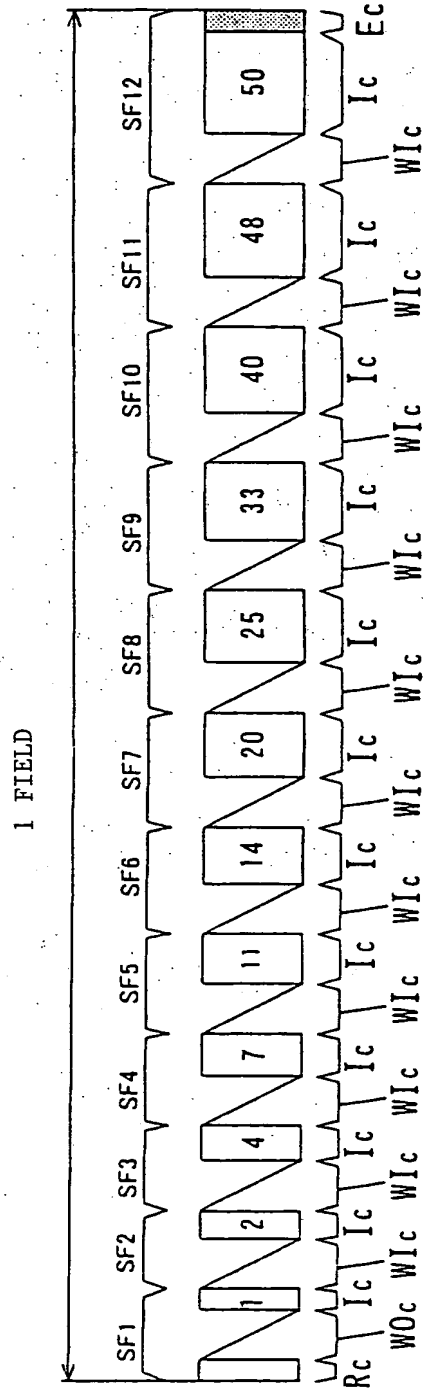


FIG. 7

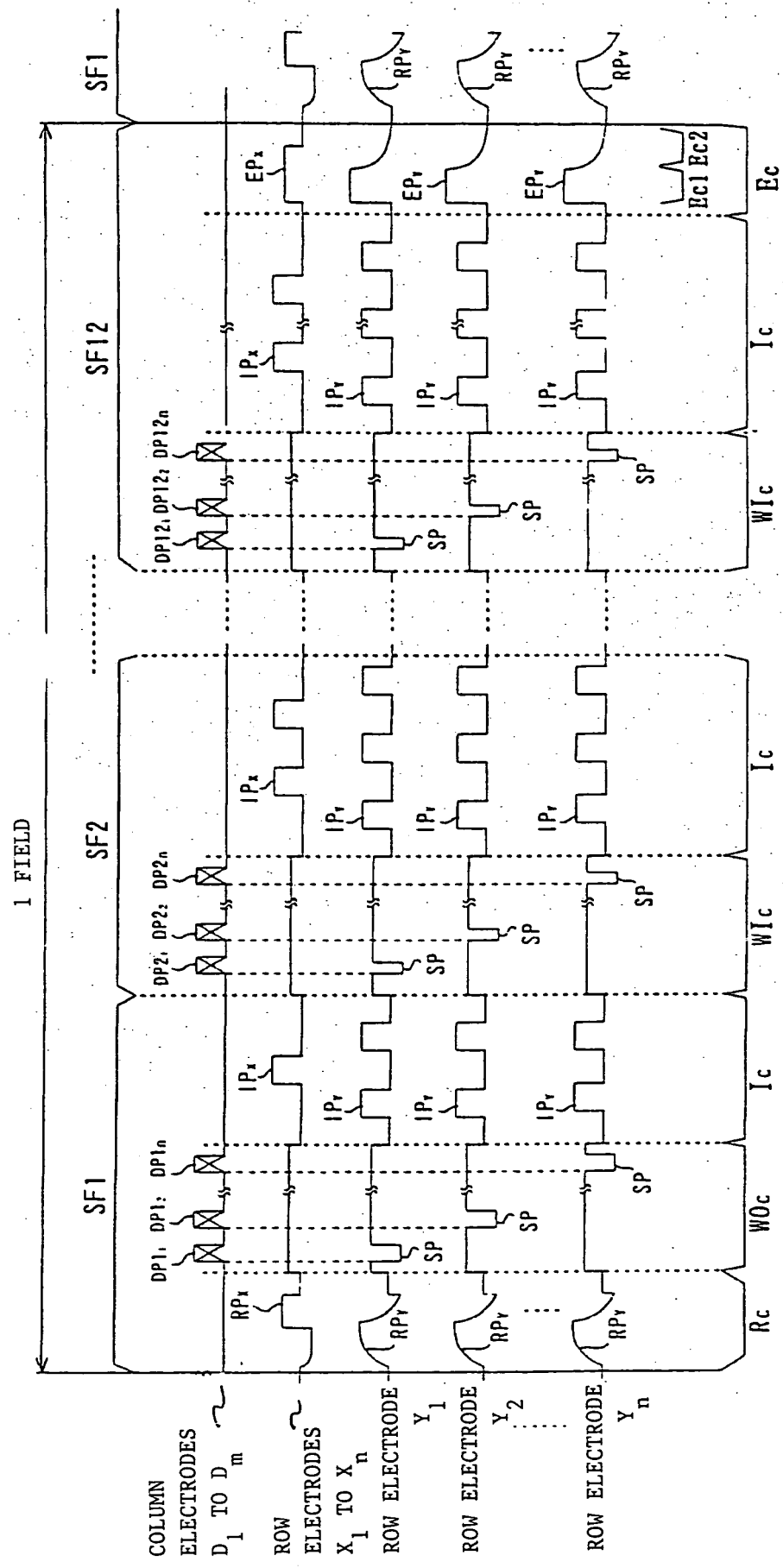


FIG. 8

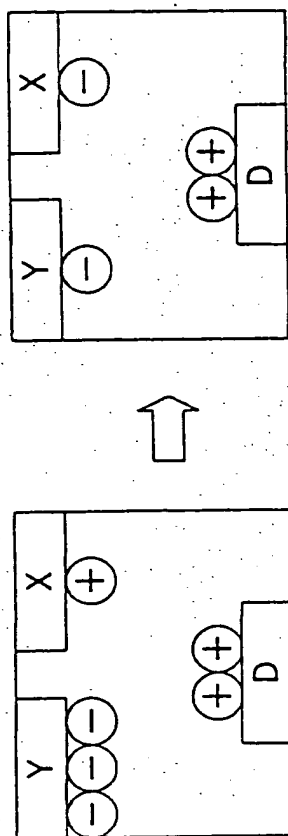


FIG. 9A FIG. 9B

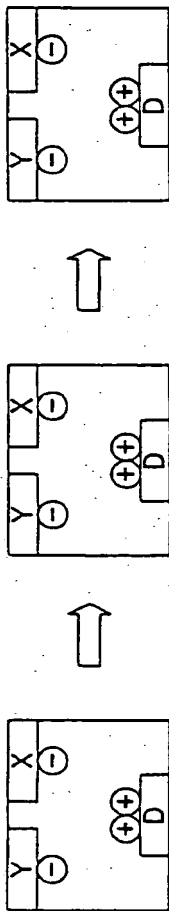


FIG. 10A

NO SELECTIVE WRITING
DISCHARGE AND NO
SELECTIVE ERASING
DISCHARGE

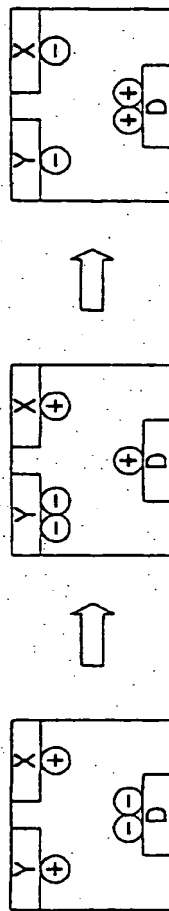


FIG. 10B FIG. 10D FIG. 10E

SELECTIVE WRITING
DISCHARGE AND SELECTIVE
ERASING DISCHARGE

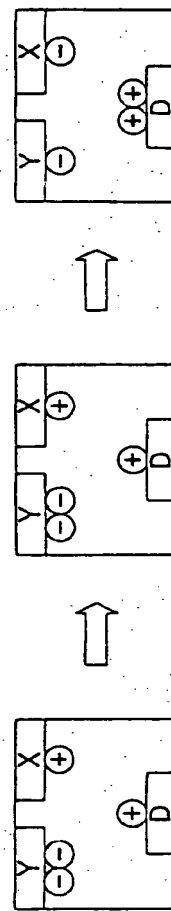


FIG. 10C FIG. 10F

SELECTIVE WRITING
DISCHARGE ONLY

Ec1 Ec2

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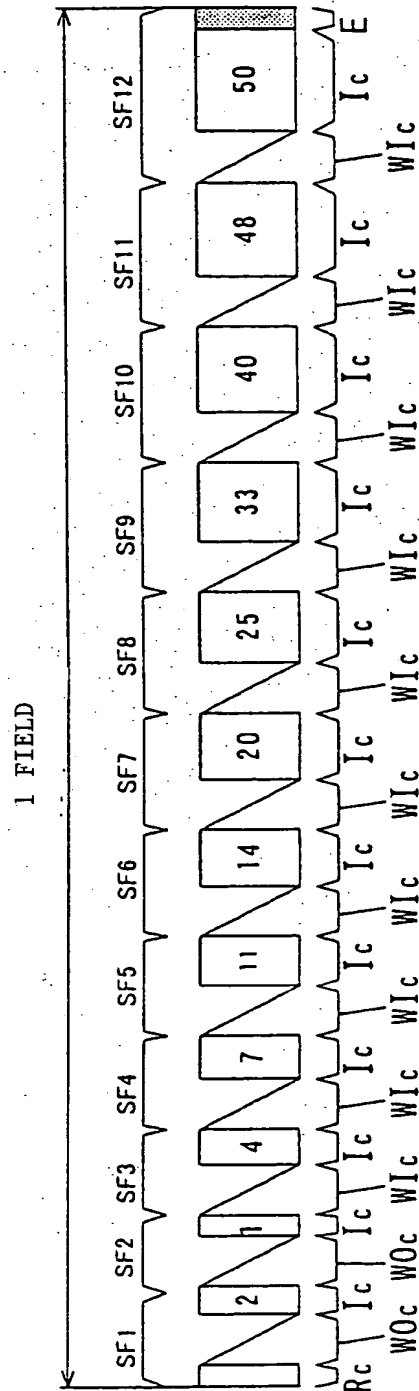


FIG. 11

GRADATION
DRIVING

LUMINANCE

	CONVERSION TABLE					EMISSION PATTERN														
	PDS	GD					SF 1	SF 2	SF 3	SF 4	SF 5	SF 6	SF 7	SF 8	SF 9	SF 10	SF 11		SF 12	
		1	2	3	4	5														
1	0000	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2	0001	0	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1
3	0010	1	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3
4	0011	1	1	0	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7
5	0100	1	1	0	0	1	*	*	*	*	*	*	*	*	*	*	*	*	*	13
6	0101	1	1	0	0	0	1	*	*	*	*	*	*	*	*	*	*	*	*	25
7	0110	1	1	0	0	0	0	1	*	*	*	*	*	*	*	*	*	*	*	39
8	0111	1	1	0	0	0	0	0	1	*	*	*	*	*	*	*	*	*	*	59
9	1000	1	1	0	0	0	0	0	0	1	*	*	*	*	*	*	*	*	*	84
10	1001	1	1	0	0	0	0	0	0	0	1	*	*	*	*	*	*	*	*	117
11	1010	1	1	0	0	0	0	0	0	0	0	1	*	*	*	*	*	*	*	157
12	1011	1	1	0	0	0	0	0	0	0	0	0	1	*	*	*	*	*	*	205
13	1100	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	255

FIG. 12

*:0 OR 1

◎ : SELECTIVE WRITING ● : SELECTIVE ERASURE ○ : SUSTAIN DISCHARGE EMISSION SF